

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P163264

Luminaire Tested: **LDRL-SL2-F04-E-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163264
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F04-E-7060-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6026.3 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

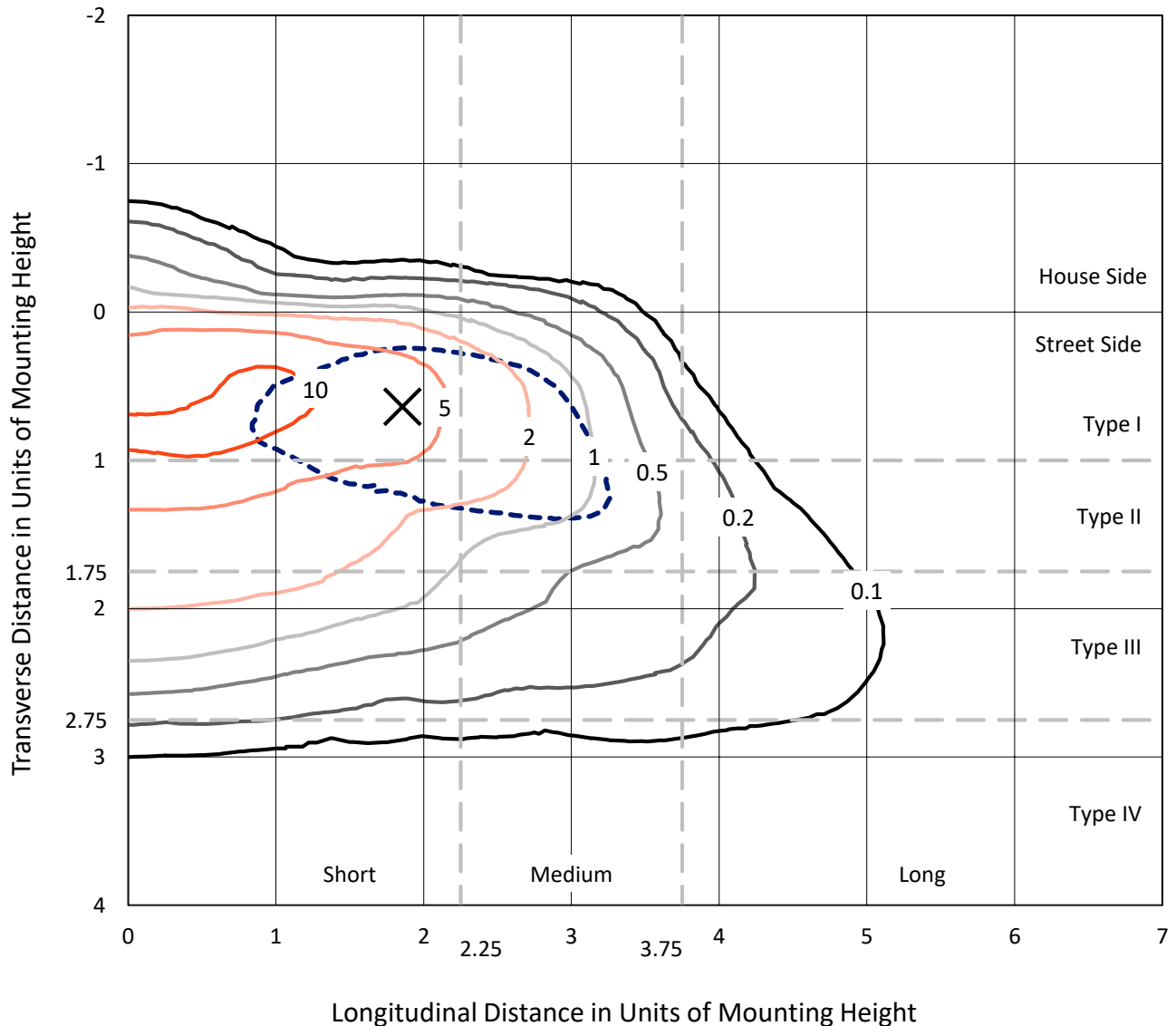


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

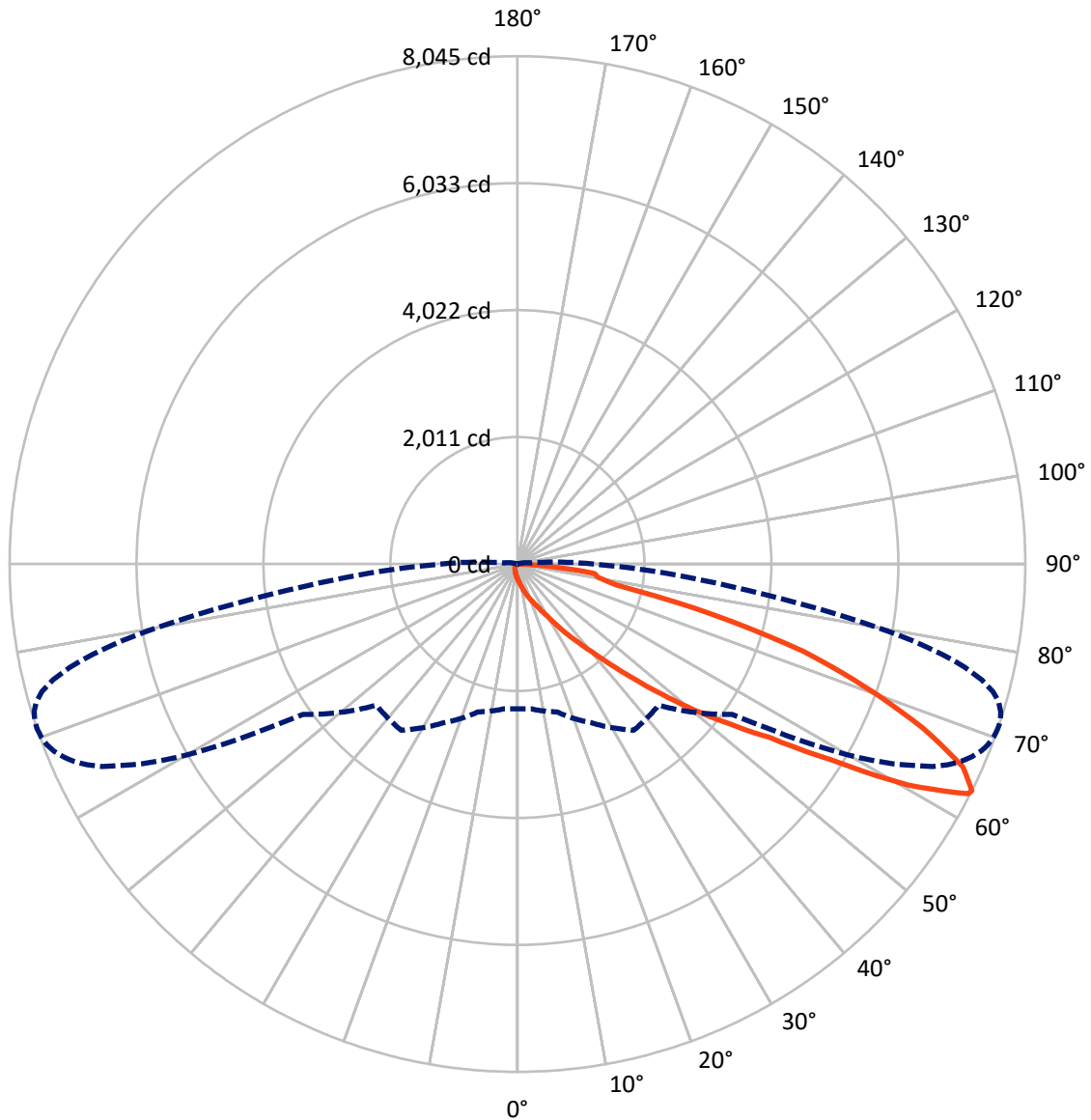


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	128.0	0.0	128.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5898.3	0.0	5898.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	6026.3	0.0	6026.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.4
10°-20°	99.1	1.6
20°-30°	201.3	3.3
30°-40°	491.7	8.2
40°-50°	1099.7	18.2
50°-60°	1546.3	25.7
60°-70°	1818.3	30.2
70°-80°	656.6	10.9
80°-90°	87.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6026.3	100.0
0°-180°	6026.3	100.0



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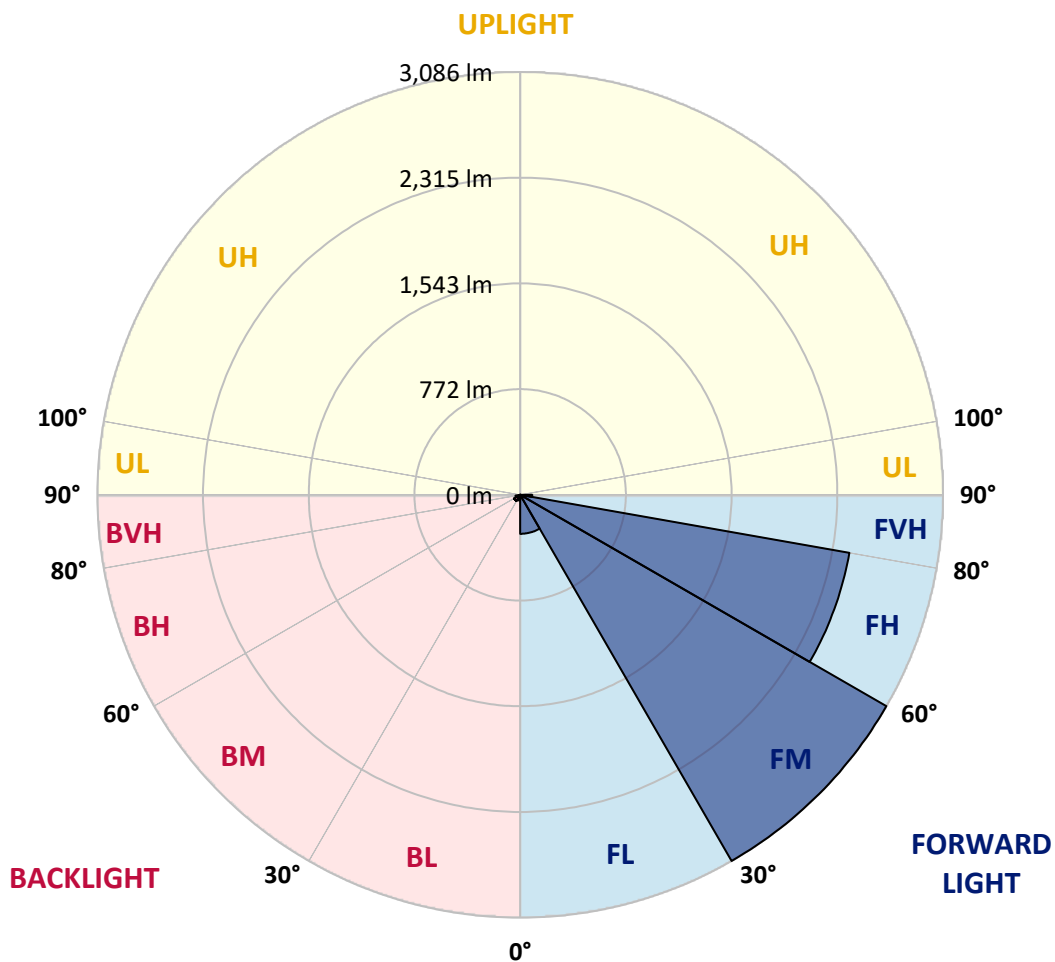
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.8	4.7			
FM	(30°-60°)	3086.1	51.2			
FH	(60°-80°)	2439.8	40.5			G2/5000
FVH	(80°-90°)	87.6	1.5			G1/100
BL	(0°-30°)	41.1	0.7	B0/110		
BM	(30°-60°)	51.5	0.9	B0/220		
BH	(60°-80°)	35.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
2.5°	302.4	305.6	303.5	298.0	291.4	282.7	275.0	275.0	273.9	270.6	271.7
5°	396.6	397.7	393.3	380.2	368.1	349.5	328.7	326.5	324.3	321.0	319.9
7.5°	488.6	493.0	488.6	474.4	450.2	421.8	388.9	385.7	379.1	379.1	374.7
10°	582.9	582.9	578.5	562.0	540.1	499.6	458.0	452.5	444.8	442.6	436.0
12.5°	649.7	649.7	647.4	638.7	621.1	585.0	534.6	529.1	519.3	516.0	508.3
15°	676.0	676.0	677.1	684.7	685.8	669.4	616.8	612.4	602.6	593.8	590.5
17.5°	692.4	691.3	691.3	702.3	722.0	732.9	698.9	694.6	683.6	679.2	668.3
20°	728.6	726.3	719.7	719.7	738.4	776.7	776.7	775.7	763.6	760.3	754.8
22.5°	782.2	780.1	760.3	743.9	752.6	800.9	845.8	843.6	839.2	834.8	831.5
25°	869.8	862.2	828.2	780.1	772.3	823.8	898.4	903.8	907.1	907.1	909.3
27.5°	1002.4	992.6	932.3	842.5	808.5	861.1	956.4	967.4	977.3	979.4	989.2
30°	1186.4	1169.0	1082.4	951.0	873.2	915.9	1041.8	1053.9	1068.1	1072.5	1087.8
32.5°	1488.8	1479.0	1395.7	1198.5	1032.0	1023.3	1161.2	1176.6	1195.3	1202.9	1221.6
35°	1949.0	1951.2	1883.2	1705.7	1475.7	1355.2	1374.9	1388.1	1394.6	1417.6	1427.5
37.5°	2261.2	2266.6	2282.0	2211.9	2047.6	1924.9	1770.4	1784.6	1750.7	1754.0	1755.1
40°	2432.1	2449.6	2539.5	2607.4	2594.2	2523.0	2399.3	2406.9	2343.3	2329.1	2260.1
42.5°	2546.0	2569.0	2712.5	2922.9	3030.3	3094.9	3066.4	3063.2	3013.8	2995.2	2937.1
45°	2617.3	2638.1	2818.8	3128.9	3376.4	3564.9	3642.7	3651.4	3609.8	3591.2	3542.9
47.5°	2613.9	2638.1	2831.9	3205.5	3570.4	3871.6	4090.8	4101.7	4126.9	4110.5	4113.7
50°	2469.3	2492.4	2687.3	3075.2	3513.4	4011.9	4412.9	4447.9	4488.4	4515.8	4528.9
52.5°	2294.1	2310.5	2483.6	2851.7	3270.2	3953.8	4603.5	4663.7	4724.0	4775.5	4811.6
55°	2229.4	2248.1	2383.9	2689.6	3075.2	3710.6	4692.2	4781.0	4866.4	4950.7	5019.8
57.5°	2263.4	2280.9	2378.4	2612.9	2959.1	3454.2	4717.4	4855.4	4995.6	5132.6	5268.5
60°	2388.3	2406.9	2490.1	2684.1	2928.4	3306.3	4618.8	4847.8	5081.1	5320.0	5544.6
62.5°	2338.9	2346.7	2469.3	2809.0	3147.5	3180.3	4260.6	4580.4	4936.5	5304.6	5667.2
63°	2291.8	2300.7	2425.6	2775.0	3214.3	3161.8	4149.9	4487.3	4863.1	5259.7	5654.1
65°	2078.2	2079.3	2174.7	2450.7	3139.8	3194.6	3656.9	3979.0	4410.6	4886.1	5384.6
67.5°	1551.3	1543.6	1635.7	1846.0	2465.0	3195.7	3138.7	3319.5	3619.7	4041.4	4488.4
70°	550.0	537.9	686.9	978.3	1535.9	2613.9	2697.2	2709.3	2792.5	3020.4	3300.9
72.5°	178.6	181.9	219.1	358.2	707.7	1759.4	2441.9	2404.7	2382.8	2381.7	2419.0
75°	71.2	72.3	87.6	158.8	317.7	848.0	2138.5	2159.3	2167.0	2177.9	2190.0
77.5°	34.0	37.3	49.3	88.7	157.8	419.6	1530.5	1706.8	1807.7	1885.5	1932.6
80°	12.1	14.2	27.4	54.8	73.4	192.8	806.3	972.8	1120.7	1311.3	1475.7
82.5°	0.0	0.0	5.5	38.4	40.5	77.8	330.8	387.8	443.7	575.1	738.4
85°	0.0	0.0	0.0	11.0	12.1	13.1	111.7	134.7	151.2	176.4	203.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.6	16.4	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
2.5°	269.5	268.4	268.4	266.2	265.1	262.9	261.8	258.5	257.4	257.4	257.4
5°	318.8	314.4	312.2	306.8	303.5	302.4	296.9	294.7	291.4	292.5	287.1
7.5°	373.6	365.9	362.6	355.0	352.8	345.1	342.9	337.4	334.2	327.6	325.3
10°	433.8	423.9	418.5	406.5	403.1	397.7	391.1	384.5	379.1	372.5	369.2
12.5°	502.8	494.1	489.7	473.3	465.6	458.0	449.2	440.4	431.7	426.2	418.5
15°	583.9	569.7	565.3	550.0	536.8	526.9	514.9	504.0	497.4	486.4	478.8
17.5°	663.9	649.7	646.4	623.4	609.1	602.6	589.4	575.1	563.1	552.2	540.1
20°	743.9	734.0	725.2	703.3	688.0	677.1	659.5	645.3	635.4	620.1	604.7
22.5°	823.8	814.0	807.4	784.4	770.2	754.8	739.5	724.1	709.9	691.3	673.7
25°	906.0	899.5	896.1	875.3	862.2	848.0	832.6	815.1	797.5	776.7	758.1
27.5°	991.5	993.7	987.1	982.7	968.4	958.6	934.5	922.4	909.3	884.1	861.1
30°	1099.9	1106.5	1104.3	1107.6	1098.8	1092.3	1073.6	1058.3	1043.0	1018.9	992.6
32.5°	1236.9	1245.6	1250.0	1262.1	1257.7	1255.5	1250.0	1228.1	1217.1	1175.5	1164.6
35°	1448.3	1443.9	1462.5	1472.4	1468.0	1465.8	1459.3	1447.2	1434.1	1404.5	1377.1
37.5°	1723.3	1727.7	1734.3	1714.5	1701.4	1700.3	1680.5	1668.5	1649.9	1617.0	1584.2
40°	2227.2	2199.8	2169.2	2085.9	2049.8	2028.9	1970.9	1954.4	1922.7	1877.7	1843.8
42.5°	2882.4	2855.0	2763.0	2623.8	2549.3	2446.4	2399.3	2341.2	2296.3	2222.9	2183.4
45°	3533.1	3454.2	3443.3	3281.2	3189.1	3053.3	2968.9	2871.4	2769.5	2673.1	2603.0
47.5°	4082.0	4064.5	4010.8	3912.2	3826.7	3712.8	3604.3	3454.2	3349.1	3212.1	3086.1
50°	4521.3	4520.2	4500.5	4443.5	4372.3	4280.3	4185.0	4057.9	3938.5	3770.8	3636.1
52.5°	4849.9	4867.5	4874.1	4856.5	4829.1	4748.1	4699.8	4593.6	4492.8	4350.4	4204.7
55°	5091.0	5155.6	5188.5	5225.7	5218.1	5189.6	5187.4	5118.4	5072.4	4959.5	4856.5
57.5°	5389.0	5495.2	5597.1	5777.9	5784.4	5848.0	5880.9	5913.7	5922.5	5877.6	5843.6
60°	5768.0	5985.0	6177.8	6555.7	6654.3	6809.9	6910.6	7020.2	7113.3	7121.0	7118.8
62.5°	6035.3	6369.5	6680.6	7241.5	7433.3	7612.9	7747.6	7853.9	7918.5	7984.3	8015.0
63°	6043.0	6408.9	6739.7	7318.2	7519.8	7690.7	7818.8	7917.4	7985.4	8024.9	8044.6
65°	5857.8	6301.6	6696.0	7272.2	7461.7	7633.7	7700.5	7765.2	7798.0	7813.4	7755.3
67.5°	4965.0	5398.9	5858.9	6503.1	6665.3	6871.2	6926.0	6958.9	6974.2	6970.9	6921.6
70°	3712.8	4076.5	4588.1	5324.3	5539.1	5740.6	5865.5	5919.2	5936.7	5931.2	5857.8
72.5°	2592.1	2805.6	3227.5	4046.9	4339.5	4598.0	4752.4	4832.4	4848.9	4816.0	4748.1
75°	2176.8	2187.8	2283.1	2731.2	3005.1	3281.2	3455.3	3505.7	3472.9	3373.2	3200.0
77.5°	1943.5	1967.6	1967.6	2034.4	2088.1	2164.8	2181.3	2058.5	1916.1	1732.0	1583.1
80°	1630.2	1714.5	1773.7	1823.0	1828.5	1813.1	1772.6	1703.6	1594.0	1453.8	1298.2
82.5°	990.4	1156.9	1224.8	1479.0	1603.9	1688.3	1681.7	1589.7	1506.4	1360.7	1228.1
85°	249.8	269.5	292.5	380.2	426.2	520.4	579.5	606.9	616.8	566.4	512.7
87.5°	24.1	16.4	27.4	20.8	29.5	21.9	29.5	27.4	34.0	36.1	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
2.5°	255.3	254.2	253.0	252.0	250.9	249.8	247.6	247.6	245.4	244.3	243.2
5°	283.7	281.6	280.5	278.2	275.0	272.8	269.5	265.1	261.8	260.8	258.5
7.5°	319.9	314.4	312.2	308.9	304.5	298.0	293.6	290.3	284.8	281.6	275.0
10°	360.4	355.0	348.4	341.8	335.2	327.6	322.1	317.7	308.9	304.5	296.9
12.5°	411.9	402.1	394.4	385.7	376.8	368.1	361.5	348.4	340.7	330.8	324.3
15°	464.5	455.7	447.0	436.0	422.9	408.6	402.1	390.0	380.2	364.8	356.0
17.5°	528.0	511.6	498.5	485.3	473.3	460.1	447.0	428.3	414.1	401.0	383.4
20°	590.5	570.8	556.6	539.0	521.5	500.7	485.3	472.2	452.5	434.9	416.3
22.5°	657.3	637.6	614.6	597.1	573.0	556.6	535.7	513.8	494.1	471.1	448.1
25°	738.4	717.6	691.3	668.3	640.9	617.9	592.7	567.5	543.4	517.1	487.5
27.5°	838.1	816.2	787.7	760.3	724.1	695.7	671.6	637.6	606.9	574.0	540.1
30°	964.1	940.0	904.9	865.5	829.3	797.5	763.6	718.7	684.7	645.3	601.4
32.5°	1128.4	1099.9	1052.8	1015.5	970.7	929.0	881.9	837.0	788.8	737.3	686.9
35°	1335.5	1309.2	1254.4	1199.6	1150.3	1101.0	1041.8	990.4	922.4	860.0	795.4
37.5°	1550.2	1503.1	1452.7	1393.5	1332.1	1273.0	1200.7	1129.5	1051.7	983.8	902.7
40°	1795.6	1738.6	1697.0	1633.4	1546.9	1462.5	1395.7	1307.0	1209.5	1118.5	1023.3
42.5°	2131.9	2068.4	1993.9	1897.4	1835.0	1736.4	1649.9	1544.7	1416.5	1314.7	1199.6
45°	2520.8	2434.3	2362.0	2268.9	2193.2	2070.6	1969.8	1829.5	1701.4	1567.7	1427.5
47.5°	2964.6	2857.2	2752.0	2660.0	2539.5	2419.0	2290.8	2141.8	1977.5	1830.6	1664.1
50°	3474.0	3321.7	3176.0	3057.7	2892.3	2753.1	2613.9	2446.4	2264.5	2095.8	1906.3
52.5°	4040.3	3864.0	3671.2	3489.3	3297.6	3119.0	2951.4	2758.6	2555.9	2349.9	2138.5
55°	4724.0	4591.4	4364.6	4133.5	3877.1	3638.3	3422.5	3183.6	2937.1	2666.5	2444.1
57.5°	5794.3	5729.7	5540.1	5309.0	4974.8	4684.5	4318.6	4026.1	3669.0	3296.5	3009.4
60°	7244.8	7164.8	7058.6	6871.2	6606.1	6211.7	5808.6	5353.9	4810.5	4294.5	3804.8
62.5°	8018.3	7989.8	7903.2	7773.9	7526.4	7215.3	6808.8	6309.2	5695.7	5069.0	4444.6
63°	8041.3	8005.1	7930.6	7799.1	7581.1	7279.8	6881.1	6395.8	5795.4	5156.7	4519.1
65°	7730.1	7715.9	7640.3	7496.8	7347.8	7117.7	6808.8	6391.4	5887.4	5283.8	4649.5
67.5°	6855.9	6813.1	6697.0	6653.2	6549.1	6389.2	6153.6	5866.6	5506.2	5031.8	4484.0
70°	5798.7	5735.2	5589.4	5511.7	5384.6	5283.8	5140.3	4935.4	4713.0	4382.2	3973.5
72.5°	4678.0	4546.5	4412.9	4210.2	4032.7	3853.0	3694.1	3549.5	3305.2	3171.6	2861.6
75°	3038.0	2799.1	2570.2	2263.4	1987.3	1743.0	1505.3	1384.7	1133.9	1032.0	886.3
77.5°	1441.7	1308.1	1128.4	989.2	811.8	662.8	541.2	406.5	318.8	249.8	190.6
80°	1163.5	1050.6	942.2	816.2	682.5	544.5	417.4	312.2	221.3	153.4	108.4
82.5°	1037.5	914.8	781.1	694.6	603.7	494.1	405.4	330.8	244.3	178.6	121.6
85°	403.1	339.6	261.8	213.6	166.5	137.0	123.8	85.5	66.8	52.6	40.5
87.5°	35.0	28.5	23.0	15.3	16.4	8.7	9.8	6.6	5.5	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1	231.1
2.5°	242.1	241.0	239.9	237.7	237.7	235.6	234.5	233.3	227.9	215.8	205.9
5°	254.2	252.0	249.8	246.5	244.3	241.0	238.8	235.6	223.5	200.5	180.7
7.5°	271.7	267.3	264.0	257.4	254.2	249.8	246.5	241.0	221.3	186.2	158.8
10°	292.5	284.8	279.3	271.7	265.1	259.6	254.2	246.5	219.1	170.9	139.1
12.5°	317.7	308.9	298.0	289.2	280.5	272.8	265.1	255.3	215.8	157.8	123.8
15°	342.9	329.7	322.1	310.0	298.0	287.1	276.1	267.3	216.9	143.5	110.7
17.5°	371.4	358.2	341.8	328.7	315.5	301.3	288.1	270.6	211.4	132.6	100.8
20°	398.8	380.2	364.8	348.4	329.7	312.2	295.8	280.5	207.0	121.6	92.0
22.5°	428.3	406.5	386.7	365.9	342.9	323.2	303.5	283.7	199.4	111.7	84.4
25°	464.5	439.3	410.8	385.7	361.5	337.4	312.2	288.1	191.7	103.0	78.9
27.5°	508.3	475.4	447.0	415.2	381.3	350.6	323.2	296.9	184.1	96.4	73.4
30°	564.2	525.9	485.3	444.8	408.6	373.6	335.2	302.4	176.4	89.9	67.9
32.5°	638.7	590.5	541.2	494.1	445.9	401.0	360.4	317.7	172.0	84.4	62.4
35°	737.3	674.9	614.6	555.4	497.4	442.6	390.0	341.8	172.0	77.8	55.8
37.5°	830.4	758.1	681.5	608.0	539.0	475.4	413.0	355.0	163.2	72.3	50.4
40°	931.2	844.6	754.8	668.3	585.0	506.1	434.9	368.1	155.6	65.7	44.9
42.5°	1085.7	976.1	858.9	758.1	658.4	560.9	472.2	393.3	145.7	59.2	39.4
45°	1288.4	1149.2	1011.2	888.5	761.4	642.0	536.8	439.3	143.5	53.7	34.0
47.5°	1505.3	1341.0	1178.8	1022.1	873.2	734.0	608.0	490.8	143.5	48.2	29.5
50°	1721.1	1515.1	1342.0	1160.2	992.6	828.2	678.1	544.5	144.6	43.8	24.1
52.5°	1916.1	1695.9	1502.0	1291.6	1106.5	915.9	752.6	597.1	142.4	38.4	19.7
55°	2186.7	1928.1	1703.6	1471.3	1254.4	1039.7	854.5	676.0	143.5	34.0	16.4
57.5°	2685.2	2381.7	2111.1	1806.6	1556.8	1279.6	1055.0	838.1	156.7	28.5	12.1
60°	3400.6	3006.2	2626.0	2254.6	1936.9	1607.1	1315.7	1060.5	184.1	23.0	8.7
62.5°	3881.5	3365.5	2912.0	2502.2	2133.0	1787.9	1470.2	1179.9	202.7	18.6	5.5
63°	3930.8	3397.2	2941.5	2518.7	2141.8	1796.7	1476.8	1188.7	203.8	17.6	5.5
65°	4023.9	3452.1	2958.0	2521.9	2133.0	1784.6	1472.4	1187.5	205.9	14.2	4.4
67.5°	3917.6	3367.7	2862.6	2427.7	2056.4	1713.4	1417.6	1143.8	204.9	9.8	3.3
70°	3503.5	3047.8	2604.1	2198.7	1861.3	1551.3	1290.5	1043.0	188.5	6.6	2.2
72.5°	2572.3	2262.3	1918.3	1625.8	1402.3	1164.6	993.7	783.3	145.7	4.4	1.1
75°	762.5	694.6	583.9	514.9	454.6	375.8	334.2	260.8	74.5	2.2	0.0
77.5°	152.3	138.0	123.8	112.8	106.3	90.9	86.5	71.2	30.7	1.1	0.0
80°	80.0	65.7	55.8	49.3	42.7	35.0	29.5	24.1	5.5	0.0	0.0
82.5°	76.7	51.5	37.3	30.7	26.3	20.8	16.4	12.1	3.3	0.0	0.0
85°	28.5	21.9	16.4	13.1	11.0	9.8	7.7	6.6	0.0	0.0	0.0
87.5°	4.4	3.3	3.3	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	231.1	231.1	231.1	231.1	231.1	231.1	231.1
2.5°	196.1	187.3	183.0	177.5	177.5	176.4	178.6
5°	163.2	151.2	142.4	135.9	137.0	133.6	134.7
7.5°	138.0	126.0	118.3	113.9	112.8	111.7	111.7
10°	119.4	108.4	101.9	98.6	97.5	97.5	97.5
12.5°	106.3	95.3	89.9	87.6	87.6	86.5	86.5
15°	95.3	86.5	81.0	78.9	78.9	77.8	78.9
17.5°	86.5	77.8	73.4	71.2	71.2	70.1	70.1
20°	78.9	71.2	66.8	63.6	63.6	62.4	63.6
22.5°	72.3	64.6	59.2	57.0	55.8	54.8	55.8
25°	65.7	58.1	52.6	49.3	48.2	48.2	47.1
27.5°	60.2	52.6	46.0	42.7	41.6	41.6	40.5
30°	54.8	46.0	39.4	36.1	35.0	35.0	35.0
32.5°	49.3	39.4	34.0	30.7	29.5	29.5	29.5
35°	43.8	34.0	28.5	25.2	24.1	24.1	24.1
37.5°	37.3	28.5	21.9	19.7	18.6	17.6	17.6
40°	31.8	21.9	16.4	14.2	12.1	12.1	12.1
42.5°	26.3	17.6	12.1	8.7	7.7	6.6	7.7
45°	21.9	13.1	7.7	4.4	3.3	3.3	3.3
47.5°	17.6	8.7	3.3	1.1	1.1	1.1	1.1
50°	13.1	5.5	1.1	0.0	0.0	1.1	1.1
52.5°	9.8	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.5	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)